

when

SL 4 From Do. no 8003 dt 20/9/13 Submits a r./
after from the Superintending Engineer of the
preliminary report on the water supply scheme

SL 4 To the Dy Com Jankar Dist no 5392 dt 13/11
Requests him to obtain the opinion of the Municipal
Board

SL 5 From the Dy Com Jankar Dist no 332 dt
31/11/14 Reports that the Municipal Board propose to
to meet the initial cost partly from the balance
in their favour, partly from the an be p...
Subscriptions from the people and partly from govt
aid either in the form of a grant or a loan and
requests that the scheme which is considered
suitable may be worked out in detail, as
the Municipal Board are sanguine of its success
and are anxious to see it accomplished
as far as possible

SL 6 To Dy Com Jankar Dist no 401 dt 9/7/14
Informs him that if the Municipal Board raise
subscriptions to the extent of 25000/- a fourth of
the amount will be given as a grant and another
fourth will be lent and suggests that the surplus
funds of the Municipality and the amount of
subscriptions may be invested with the Mysore
Bank as fixed deposit

h...
8/7/14

5772

G.R.S. 11]

191/

GENERAL AND REVENUE SECRETARIAT

(*Ind*)

NOTES

File No 288

FILE HEADING

*Water supply to Jp. town
R a subject no 476 of 11*

From

M. P. S. Thummanaya & Singh Nayappa

No

Dated

Received 8 4 12

Diary No

5772

Enclos

Spare Copies.

Serial No /

BRIEF ABSTRACT OF LETTER

*Represent the difficulty for drinking water
& pray that a large pond be constructed at the
the end of the Jp. or near any one tank & water
supplied by means of pipes*

NOTES AND ORDERS

2) Subd for orders with draft

7/6/12

2nd Cr

3-5-12

Illu

7/14/12

(15)

3)

Draft appd. by 2nd Cr

6/15/12

(15)

4)

Issue

7 5 12

Illu

Notes—First Sheet

Vol File No. 288 of 1911

Serial
No
2

5) To the Chief Engineer No 8440
d 11.5.12 Refers the representation
to the Chief Engineer for necessary
action

3

6) From D - No 8003 d 20 9 12
(D 1995) Submits a copy of
letter from the Supr Engineer & the
preliminary report on the water supply
scheme

7) The sinking of trial wells
sanctioned in G.O No 7115-7
Vol 138-12) - 3

seems to have proved a failure
(Vide para 1 of enc 2 to the paper
under disposal) but a report about
the results is still due from the Deputy
Commr as ^{above} called for in his office letter
No 10372 d 27 6 13
Vol 131-12) - 8

8) In the circumstances the water
supply scheme recommended by the
Sr. Engr Water Supply & Stores Sd, at an
estimated cost of Rs 86100, initial &
Rs 7300/- recurring annually, seems to
be the only means of solving the
question of water supply to the town.

9 If approved the ml board may

~~separate?~~ end?

Succr-rec^d

in

Serial
No

11 Consulted in the matter as regards ways
& means

10 Submitted for orders

TS 61
26/9/13 (S) 11 2/2 Please Draft
27/9

12 Draft submitted

TS 61
20/11/13 (S) Dr Secy

20/9

A tidy draft enclosed maybe put up

4 Jan draft, put?

3/10/13
Dr Secy

TS 61
3/10/13 (S) Dr Secy

10/10

15 A tidy draft as revised maybe put up

2/4
Dr Secy

16 Jan draft, put

TS 61
3/11/13 (S) Dr Secy

5/11

17 The draft later maybe approved

6/11
Dr Secy

2nd Councilor

18

Draft appd by the 2nd Councilor.

8/11

19

8/11

4

24 Do by Com Junc 11.13

Request him to obtain the opinion of Mr. J. J. J.

General and Revenue
Secretariat

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Serial
No.

5

21) From the Deputy Commr
Gumtun of No 232 d 3 2 1/2 (D+533)
Reports that the mt Board
propose to meet the initial cost
partly from the closing balance in
their favor, partly from the anticipated
subscriptions from the people & partly
from Govt aid either in the form of
a grant or a loan and requests
that the scheme which is
considered suitable may be
worked out in detail, as the mt
Board are sanguine of its success
& are anxious to see it an
accomplished fact as early as
practicable.

22 The initial outlay of the
scheme is estimated at a lakh of Rs
at the most & the annual maintenance
cost at Rs 7300.

23 The financial condition of the
District Mt is as noted below -

Balance on 1st July 13 = Rs 26,160-3-11

Estimated receipts for Rs 8120

of Expenditure 13-14 34280

" closing balance Rs 24,965

which is ~~more~~ than the

NOTE—Contn. sheet.

Serial
NoIs for of the accounts
Is for of the accounts

?

prescribed minimum working balance
by Rs 22,860 & the maximum ⁽²⁾ working balance
by Rs 22,529. The mt Board can in
the circumstances be fairly expected to
spare Rs 20,000/- from its closing balance
towards the cost. As the people seem to be
very much interested in the concern,
the estimation of subscriptions
at Rs 25,000 may also be considered fair.
So the Govt and that may become
necessary for the completion of the scheme
will be a grant or a loan to the extent
of Rs 55,000/- [Rs 1,00,000 - (20,000 + 25,000)].

24 Instances are not wanting in which
Govt have come to the rescue of the manu-
facturers in such circumstances Grants
have been made to the water supply
schemes of Shungur, ⁽¹⁾ Gundlupet &
other places & promises have been made to
bear half the cost of water supply of
Chik Ballapur & ⁽²⁾ Kolar. What grant
the mt Board of Deptur deserves on
account of their carelessness in the matter
is a point for the consideration of Govt.
25 As the mt board cannot do without
a loan, the grant of it is a necessity.

No 354-61 of 24-3-09
2275-82 X

No 644-6 of 15-7-13
2267-4) = 8 W

No 9833 of 14-12-07
2275-82 10-6-13
2275-82

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to enable them to put it into execution, 25. The receipts & expenditure of the Ind during the past 4 years are noted below. —

Year	Receipts	Expenditure
1909-10	Rs 7282	7132
1910-11	10556	6177
1911-12	8338	5814
1912-13	<u>10044</u>	<u>5350</u>
Total	36220	24473
average	9055	6123

It will be seen from the above that the estimate for the current year is not at all overanxious and that the receipts of the Ind Board may safely be taken to be that given by the President viz Rs 8000. As regards the expenditure, it may be safely be taken not to exceed Rs 6000 on an average & as a sum of Rs 2000/- may be saved against Rs 4000, expended by the Board. In addition to this the Board hopes to realise an additional income of Rs 8000/- by leasing tolls, water rate & rent of a sum of Rs 10000/- that will thus be available for expenditure on other charges a sum of Rs 7500/- may be kept for maintenance charges & 2500/- for

This is, of course, not
quite as certain

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Secretariat

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repaying the loan that I may have
to borrow. The saving of Rs 2500 being
an underestimate, assuming that the
net Bd credit some Rs 2000/-, the will be
able to repay with pure cash, a loan of
Rs 50000/- in 30 years, 40000 in 20 years
+ 30000/- in 15 years (roughly)

26. Put for order

DA 61

19.2.11.

1208

27.7. I am in favour of opinion on
(i) the ability of this Municipal Board to
to fulfill their financial promises,
(ii) the advisability of allowing them to
take up this project, and
(iii) the extent to which aid can be
given from provincial revenues.

Pr II).

Pr II
24/2

CR 51/1
H. Davis 1015

P. J. Q

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No28
Sub^d

The financial condition of the Municipality has been clearly explained in paras 23 to 25 supra. As explained therein the initial cost of the proposed scheme is about 1 lakh of rupees and the annual maintenance charges ~~cost~~ come to about Rs 7500. The question for consideration is how these charges can be ^{met} by the Municipality.

29. The Municipality proposes to meet ~~the~~ ^{its} ~~charges~~ ^{costs} (a) the initial charges by (i)

(1) contributing Rs 30,000 from its funds,

(2) obtaining Rs 25,000 from public subscription,

(3) obtaining Govt. aid, and

(4) borrowing,

and (b) the maintenance charges by

(1) revising the *mchatarfa*,

(2) levying tolls on carts ~~entering~~ ^{passing} ~~the town~~, and,

(3) levying a water tax.

As explained in para 23 above the Municipality can spare at present Rs 20,000 on account of the initial charges. What amount it can raise by public ^{contributions} subscription is not possible to conclude. As the Municipality is a non-regulation one it is not certain whether it has the power of borrowing.

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Govt aid in the shape of grant should only be sought for after the Municipality can show that it has sufficient funds to undertake the works.

30 The ways and means proposed by the Municipality for meeting the maintenance charges do not seem to be sound enough. As explained in para 25 the average annual surplus is only about Rs 2,000 and not Rs 4,000 as stated by the Municipality. Whether it can realize another sum of Rs 5500, which will be barely sufficient for the purpose, is not quite certain. Even if it does realize that amount, it will have to give up the idea, for a long time to come, of taking up other important sanitary and public works to the serious inconvenience of the public in a growing town.

31 Under these circumstances the time is not quite ripe for the Municipality to embark upon a water-supply scheme on a grand scale. The best thing to be done will be for the Municipality to accumulate a sum sufficient to cover about 60% of the initial cost and to improve its revenue also in the meanwhile. ^{It may} ~~They~~ may also increase ^{the} ~~the~~ revenue by obtaining Govt. sanction to invest its surplus funds in the Mysore Bank as has

(4)

1015

Serial
No.

been proposed in the case of the Bangalore City Municipality. If the Municipality succeeds in this attempt it may approach Govt for help from provincial revenues.

22. 12/3/14 24/3. I have been asked to see the Municipal Council and to see if they are prepared to take up the water supply scheme. I have been asked to see if they are prepared to take up the water supply scheme.

22. 12/3/14 24/3.

22. 12/3/14 24/3.

30 The population of Tiptur is only about 2500 and the scheme seems to be too costly.

34 But the town as an important trade center is comparatively rich & if the townsmen are enthusiastic on such a matter as water supply they deserve encouragement.

35 About initial cost the difficulty is not much. Rs 20,000 is available in the balance. Rs 25000, expected from private subscriptions. This represents about half the cost of the undertaking. Of the other half, Rs 12500 may be authorized to be raised as a loan of 50% maybe given as a

for grant.

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38. *Deptm* being a non-Reg^d entity, the
Mun^d Board has no corporate existence and hence
no power of independent borrowing. A loan
may have to be granted by Govt to the extent
of $\frac{1}{2}$ of the cost, besides a free grant in aid
of another fourth.

39. As regards the maintenance
charge, the expectations of the Mun^d Board
of *Deptm* ~~a good~~ appear to be quite
justified. An income of Rs 10000 in *Deptm*
is only a third of the present ^{expenditure} ~~income~~ and
will not be ~~able~~ to obtain

40. The imposition of tolls is
likely to be sanctioned very early,
as the further information has been
received.

41. ~~As~~ The water rate will ~~be~~
~~at least~~ at least Rs 1500/- as estimated
by the *Dept* ^{and} probably even more.

42. Under these circumstances,
the *Chief Eng^r* was probably ~~be~~
authorised to proceed with the preparation
of detailed estimates for the Scheme, and
the *D^r Com^r* requested to ~~arrange~~ for
the early revision of *Deptm*

File removed
for being working
TS 61
24/4/14
21/7/14
25/6/13-14
6-6
41

General and Revenue
Secretariat.

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47 Draft sub2

T461 48. All are put up with Draft
11/5/14 As revised12/5/1412/5/14

49 Jan draft sub2

T46113/5/1413/5/1412/5/14 (12/5/14)

50

May be approved

2 (12/5/14)

51)

Draft approved by 2nd member

21/5/1412/5/14

52)

Devan)

12/5/149817
26 5-14

The draft may be

53)

20-6-14

54)

12/5/14

6

55) Go by Govt. Letter No. 4014 of 1914. Inform
 him that of the total board raised subscription
 is the extent of Rs 25000, a fourth of the amount
 will be given as a grant & another fourth
 will be sent to Angkor Wat. The surplus

General and Revenue
Secretariat.

File No. 283 of 1911

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No.

fund of the Municipality & the amount
of subscription maybe credited with five
hundred bank a fixed deposit

5772

3

10/11/12
CE. 7.1.12
CE. 7.1.12 288-11
CE. 7.1.12 1

Source No. 476

Water supply to Tiptur
town.

Water supply to Tiptur
town.

Summary of discussion.—Tiptur is a large town which has also an important *centro*. Much difficulty is felt for drinking water and the capacity of the tank which dries up if there are not copious rains, cannot be improved. It is requested that a large pond be constructed either in the bed of the Tiptur or the Marthogere tank and water supplied by means of pipes.

Reply of Government.—The Chief Engineer will be requested to investigate the two projects of supplying water (1) from the tank and (2) from wells, and state which of them is more suitable for adoption.

2/5

G.R.S. 26]

File No. 288
Serial No. 11

Diary No of letter replied to 5792

General and Revenue Secretariat

(Ind)
the 10

To

No. 8460

ml 288-11-

11.5.12

The Chief Engineer of

Mysore

Date of issue 11.5.12

Signed by M. K. M. B.

Sir

I am directed to
refer to you, for necessary action
being taken, early in the matter
of ~~water~~ the representation
made in the Basara assembly of
1911 and water supply to the
Tippur town (R. a subject no. 476 of 11)
and to request you to be as good
as to report in due course results of
the action taken

I have to

Yours faithfully

72169
27/4/12

SUBJECT

2/5/12

D 1995

No 8003
Eve 2

MYSORE P W DEPARTMENT, }
CENTRAL OFFICE

Bangalore, Dated 18th Sept. 1913

From

Sl 288-11/83

KARPUR SHRINIVASRAV, Esq., BSc, LCE,
Offg Chief Engineer of Mysore,
Bangalore

To

K.R.Srinivasalingar, Esq., M.A.,

Secretary to the Government of His Highness

the Maharaja of Mysore, Gen & Rev Departments,

B A N G A L O R E

Sir,

With reference to your letter No.8440/Ml.288-11-2 dated the 11th May 1912 and further correspondence ending with this office No.6664 dated the 9th August 1913, anent Water Supply to Tiptur Town, I have the honor to forward herewith, for orders of Government a copy of letter No.5337 dated the 15th August 1913/^{from} the Superintending Engineer, Southern Circle, and the preliminary report on the water supply scheme therein referred to

2. If the proposals now put forward by the Executive Engineer ~~meet~~ with the approval of Government and the Municipality are able to finance the scheme, detailed estimate will be ordered to be prepared.

I have the honor to be,

S i r,

Your most obedient servant,

J. J. Srinivasalingar

ARA.

For Offg Chief Engineer of Mysore

Mr IV
Am
21/9

32
22/9/13
MYSORE P. W. DEPARTMENT.

No 8003

From

THE CHIEF ENGINEER OF MYSORE.

Bangalore.

To The Secretary to Government
of the Mahasaja of
Mysore
General & Revenue Dept
Bangalore.

Dated Bangalore, 18th September 1913.

Despatched 20th September 1913.

Enclosure No. Two.

SUBJECT.

Regarding water
Supply to Tipu
Town

Looking for the opinion of the ml board
in re water supply to Siptur

G R. S 26]

10/12

Copy

File No

289

Serial No

45

Diary No of letter replied to

1995

11/13

Enc 2

No 5392

ml 288-11-
9/13 11/13

General and Revenue Secretariat

(ml)
, the 191

To

The Dept. Cont
Jumkur dist

Date of issue 13 11 13

Signed by W. K. Ramanaiah

Sir,

With reference
to your letter no 143
dated the 26th Oct 1913
in the subject
ancient water supply to
Siptur town, I am
directed to forward
herewith copy of letter no
8003 dated the 18th Sep
1913 with its enclosures

paper under
disposal

over

SUBJECT

an original²³ received from
the Chief Engineer on the
subject of water supply
to the town of Tiptur.

(12) Subscribed with
the reply

It will be seen from
the report that the
scheme of providing water
from the Shivara tank
is advocated as the only
effective one.

I am therefore to
request you to be so
good as to place the
matter before the
Board of Tiptur and to
submit a report on
the suitability of the
scheme and the mode
of financing the same
in all its essential details.

I have etc

By
5/11
Secy

Secy
6/11

List of enclosures,

well
7/11
Copied by *grt*
Examined by *plc*

DSB/

3/11/13

112-13
9-214

Desam Pothana Rev.

desam of Munc-

at Board

Number 30

The balance at credit of
the Desam Municipality on the
1st July 1913 was Rs. 11,000/-

at any To foot

Rev. bal- 26,160-3-11 ✓

Rev. Dept to

Public debt. 2669-3-9 ✓

Podutalane

Total 28,829-7-2 ✓

7th Febr 1914

1/2/14

2 Puthanamb 10. S-180 332

Enclosure No. 1 copy of Resolution
and a memo

copy of Proceedings
for Municipal
e in 19. water
projects to
the town

Office of the President, District Board,
Tumkur District,

Dated, Tumkur, 3rd Febr'y. 1914.

B 4533

From

B.J. Kumarasami Naik, Esq., B.A.,

President, District Board, Tumkur District.

ul 288-11/15

To

K.R. Srinivasanagar, Esq., W.A.,

Secretary to the Government of His Highness

the Maharaja of Mysore - Genl and Rev. Depts.,

Sir,

With reference to your letter No. 5392/VI 288-11-4 dated *Encl 1/15*
the 13th November 1913, regarding the water supply project of the
Tiptur Town, I have the honour to forward herewith a copy of the
resolution of the Tiptur Municipal Council passed at its meeting
held on the 22nd instant at which I presided. There was no ques-
-tion regarding the suitability of the proposed scheme viz., to
supply water from the Shivara Tank.

From the memo drawn up by the Superintending Engineer,
Southern Circle, it is understood that the initial cost of the *V. S. S. 2*
scheme would go up to a lakh of rupees. The closing balance at the
credit of the Municipality at the end of December 1913 was just
over 30,000 Rs and as resolved by the Council it will be in a
position to pay Rs. 30,000/- towards the initial cost out of its
balance, within a couple of years. The Council have formed a com-
-mittee to collect funds to meet the balance. After the results achiev-
-ed by the Committee are known, definite proposals regarding this
main issue will be submitted by the council for the orders of Government.
The *(a) An. J. 1913* council hopes to contribute by public subscription another ap-
-preciable amount of 25,000, and it may be possible to approach the
Government to render financial aid with respect to the required
balance in a manner the Government thinks best to give.

With regard to the ways and means to meet the cost of its main-
-tenance charges, I have no doubt that the finances of the Muni-
-cipality may be considerably improved as suggested by the council.

Its mohatarfa has to be raised. The question of levying tolls on carts entering the Municipal limits for the purposes of trade, is already before Government and already a good sum is anticipated out of it. The water rate if levied will also bring in an appreciable income, as the Railway Department also is in need of an unfailing supply of water both to its locomotives as well as to the servants. The Municipality hopes to increase its income by these means to the extent of about Rs 8,000/- and it is therefore possible to meet the extra Rs 3,000/- required annually on account of maintenance charges. The balance would be enough to cover the payment both towards the interest on the loan if raised and also the repayment of the loan in instalments.

③ Under these circumstances, the ^{Board} Council is sanguine of success of the scheme and it therefore requests Government to kindly get the scheme worked out in detail so that it may be definitely informed what amount of contribution its members may have to exert themselves to collect and to what extent it may be necessary to improve the finances of the municipality.

④ As the public of Tiptur are very eager that the scheme should become an accomplished fact at a very early date even at considerable sacrifice to themselves, their request may be kindly complied with.

⑤ The enclosures received with the letter under reply is herewith returned.

I have the honour to be,

Sir,

Your most obedient servant,

Uthamiah
Assistant Commissioner,
for President,
absent from station

File No. 288-11/25 8

Proceedings of the special meeting of the Tiptur
Municipal Council held on the 22nd January, 1914 at Tiptur.

Board -----

P r e s e n t

1. B.J. Kumarasami Naik, Esq., B.A.,
President, Municipal Board, Tumkur District.
2. Mr. S. Sitarasiah, B.A., Vice President
3. " V Lakshmana Rao, D.P.W. Sub-Division Officer
4. " T. Sadasiva Mudaliar, Sub-Assst. Surgeon, Tiptur
5. " C.N. Krishnamurti B.A., Sub-Registrar, Tiptur
6. " Desamudre Basappa
7. " Shap Basappa
8. " Mahomed Dastgir Sahab
9. " Puttasami Chettaru
10. " Gundlur Chengappanavar

A b s e n t

nil

In addition to the Municipal Councillors many
leading merchants and the gentlemen of the Town
were also present.

S u b j e c t

1

The following communications
regarding the subject for to-day's
consideration viz., the subject of
Water Supply to the town of
were read and explained to
gentlemen present.-

(1) The memorandum drawn up by the
Superintending Engineer, Southern
Circle

(2) G.O. No. 3392/MI 288-11-4
dated 13th November 1913 for-
warding the above memorandum and
calling for a report on

(a) the suitability of the
scheme of supplying water
from the Shivara tank and

(b) the mode of financing the
same in all its essential de-
tails.

R e s o l u t i o n

With regard to the first point
viz., the suitability of the pro-
posed scheme, ~~with which~~ it was
resolved without much discussion
that the only hope of getting ~~the~~
water to the town lay in the pro-
posed tank and that no other
alternative was open for consi-
deration either on the score of
cost or on the score of practi-
cability

The second main issue i.e.,
the mode of financing the scheme
involved two chief points (a) the
means to provide for the initial
cost which was estimated at one
lakh of rupees and (b) the mode

to meet the annual working ex-
-penses of Rs. 7,300/-.

With regard to the first
point the Municipality was in a
position to pay Rs. 30,000/- out
of its closing balance. The
balance on the 1st January 1914
was just over Rs. 30,000/- and
in the course of a couple of
years which would be taken to
work out the scheme it was
thought quite easy to provide
the allotted amount, without
causing any embarrassment to the
finances of the Municipality.

The balance of Rs. 70,000/-
had to be provided either by con-
-tribution or by loan. The pub-
-lic as well as the Municipal
Councillors were eager that the
project should be an accomplished
fact at no distant date in view
of the difficulty for water which
is being felt more and more acute-
-ly day after day and it was re-
-solved that the Municipality
should refer the matter to a com-
-mittee from among the public to
raise subscriptions. This was
done and the marginally noted
gentlemen were formed into a com-
-mittee with Mr. Singri Nanjappa
as President and with powers to
add to their number.

Mr. Singri Nanjappa - President
" Desaiware Basappa, Merchant
" Kotturappa do
" Dattaraj Bab do
" Puttasami Chetti do
" Orakonda Chennabasappa "
" Hanjappa - Patel
" Seetharama Rao - Pleader
" Shoy Basappa - Merchant

As regards the second point i.e., the mode of providing Rs. 7,300/- for the annual up-keep of the system, it was found that the average receipts for the past three years were Rs. 8,000/- while the average expenditure deducting the unforeseen and abnormal expenses was Rs. 4,000/- so that out of the required amount of Rs. 7,300/- additional sources to meet Rs. 3,300/- have to be pointed out.

Increased income is expected out of the following items:-
(1) Mohatarfa, (2) Toll & (3) Water rate.

In view of the fact that the Municipality has not had its mohatarfa revised from a long time and considering the present flourishing condition of the town, its expanding trade and commerce and vital importance which the subject under consideration has assumed in the interests of the prosperity of the town itself, it was highly necessary that this tax should be substantially raised both to provide additional funds to repay the loan if raised on account of the project as well as to improve the financial condition of the

Enc to 2nd 288-11/23 13

Letter No. 5337 dated Bangalore 15th August 1913, from the Superintending Engineer, Southern Circle, to the Chief Engineer of Mysore, B A N G A L O R E.

= =

TIPTUR TOWN WATER SUPPLY.- Adverting to correspondence ending with your No. 4220 dated the 21st May 1913, I have the honor to submit herewith a copy of report received from the Executive Engineer, Water Supply and Stores Division on the Tiptur Town Water Supply, Tumkur District.

2. The figures furnished by the Executive Engineer are good enough for a preliminary estimate. Possibly the detailed estimate may work out to a lakh of rupees at the most.

3. The working expenses are pretty near the mark.

4. If the Municipality are able to solve the question of ways and means, then detailed estimates may be worked out.

= =

Copy of Water Supply and Stores Division Executive Engineer's report on Tiptur Town Water Supply.

= =

1. PRELIMINARY.- Tiptur is an important commercial town in the Tumkur District. Big shandies are held on two days of the week, during which time, a large number of carts resort to the place. The trade is chiefly in coconuts and jaggery.

It has population of 2331 as per figures of the last Census of 1911. The figure of the previous census being 3560.

Scarcity of water is very much felt here. There is a large major tank close to the town with a capacity of 125 units. This is said not to fill even on years of extraordinary rainfall as the catchment is full of coconut gardens and practically little water flows to the tank. The only source of water supply to the town is from wells. There are a number of them in the town

but many of them have no water. Only a few of them contain water the one near the bazaar street and the other near the railway station being the chief sources of supply.

There appears to be no powerful springs under ground to keep the supply on the wells as some of the wells that contained water dried up after one or two seasons. The Geological Department tried recently tube well sinking here. One bore hole was bored to a depth of 42 feet and had to be abandoned on account of the hard rock found at that level. Another is being tried at a different place and this has gone down to a depth of 80 and odd feet and no powerful springs have yet been tapped.

The difficulty for adequate water for the requirements of the towns people is felt very keenly and the need of proper water supply is a pressing necessity.

2. SOURCE OF SUPPLY. As already stated there is no possibility of expecting an unfailing supply of water by wells and only possible source is by tanks. There are a number of tanks around Tiptur. Their possibilities as sources of supply have been investigated. Some have no required capacity or some have extensive cultivation under them. The only tanks that are worth considering are (1) Karadi Tank (1) Shivara Amritha Mahal Tank. Though the former (Karadi tank) has a capacity of 150 units and a drainage area of 3-4 square miles, the tank is said to fail. There are no upper tanks above this and the tank is dependent on its own catchment for its supply. The tank is therefore not to be depended upon for giving an unfailing supply of water.

The Shivara tank is situated in Lat. $13^{\circ}-12'-30''$ Long: $76^{\circ}-25'-30''$ Topo sheet No. 30 and close to Tiptur - Dodda Road, 7th mile. This tank was restored in the year 1893 at a cost of Rs. 6,551/- and the weir was then raised by 2 feet. The independent drainage area is 2.5 square miles and the total 33.5 square miles. There are 15 tanks above this, all in the Hassan District. The water spread at weir level is 215 acres and ^{the} maximum depth 10 feet. The capacity is 200 units and the catchment 193 acres assessed at Rs. 248/-

The extent of cultivation under this tank is 122 acres of which 100 acres is wet cultivation and the rest cocoanut gardens.

3. The catchment of this tank wholly lies in the Hassan District where the rain fall is good and evenly distributed. The upper tanks of this series generally discharge every year and a fair amount of water may be expected to be received into this tank from those above. Even without taking this contingency it will be seen from the figures given into a separate sheet attached that the tank can last for practically 3 years of minimum rain fall. So by reserving this tank for the town supply an unfailing supply of water can be insured.

4. PROPOSAL FOR A WATER SUPPLY SCHEME.— In the foregoing paragraph the suitability of Shivara tank as a source of supply has been discussed in detail. This tank is ^{situated} ~~located~~ about 7 miles from Tiptur and about 50 feet lower than the highest point of the town. So we have to resort pumping for supplying this tank water for the consumption of the town. It is proposed therefore to install a suitable pump and engine near the left waste weir of the Shivara tank and to pump the water to the highest point of Tiptur through a 5" steel main. The number of hours of pumping to be 12 hours for the present, increased to 18 hours later on, as occasion may arise. The rate of pumping being 30 gallons per minute against a total head of 110 feet. A storage reservoir is proposed to be constructed at Tiptur to hold 2 days' supply and distribution pipes will be laid from this reservoir to the different parts of the town and a fair number of fountains erected in convenient places. It is also proposed to install Jewell pressure Filters near the engine house, so that, the tank water may be filtered and pumped. From what I saw of the quality of the water, I anticipate no difficulty in efficiently filtering the water by means of these pressure filters.

5. INITIAL COST OF WATER SUPPLY MAY BE ESTIMATED AS FOLLOWS

- (1) 7 miles of 5" steel pipe line including specials, valves, etc., at an average cost of Rs.8,333 per mile Rs. 58,331

(2) One 5 H.P. oil engine and pump	Rs. 3500/-
(2 a) Engine House	Rs. 1000/-
(3) Jewell Pressure Filters	Rs. 3000/-
(4) Quarters for staff	Rs. 1500/-
(5) Improvements to Shivara tank such as revet- ting the front slopes, etc., ...	Rs. 3000/-
(6) Compensation for converting 100 acres of wet cultivation to dry bagayat @ Rs.30/- per acre	Rs. 3000/-
(7) Foundation to engine and pumps	Rs. 500/-
(8) Special pipes for engine and pumps .. .	Rs. 500/-
(9) Trial pumping	Rs. 250/-
(10) Tools for pumping station	Rs. 300/-
(11) Distribution reservoir to hold 2 day's sup- ply or 120,000 gallons	Rs. 4000/-
(12) Distribution pipes and fountains in the town	Rs. 5000/-
(13) Contingencies and unforeseen charges ..	Rs. 3119/-
Total	Rs. 86000/-

8. WORKING EXPENSES.— The working expenses for this water supply may be estimated as follows:—

(1) **STAFF.**

1. Chief Driver	Rs.30/-
1. Asstt.Driver	15/-
1. Cleaner	8/-
1. Watchman	8/-
1. Water Inspector for town dis- tribution, etc.	25/-
1. Valveman	10/-

Total Rs 96/- or Rs.100 per month
or per year Rs.1,200/-

(2) Oil for working 5 H.P Oil Engine for 18
hours a day at Rs.7/- per day or Rs.2,555/-
per year Rs. 2,555/-

(3) Lubricant and small stores 500/-

(4) Repairs to engine and pump 500/-

(5) Repairs to pipeline and fountains 500/-

Total Rs 4055/-

Rs.4 0 - per annum.

In addition to the working charges, the Municipal Council will have to find a depreciation fund of 4% on the value of pump-ing plant and pipe line which amount to Rs.50,000/- as per details below:-

Rising main	Rs. 40,880/-
Engine and pump	3,500/-
Special pipes	500/-
Distribution pipes and fountains	5,000/-
Total Rs.49,880/-	

or say Rs.50,000/- @ 4% is Rs.2,000.

so the total maintenance charges amount to Rs.7,300/- per annum.

CONCLUDING PARAGRAPH. It will thus be seen that an initial cost for a water scheme to the town of Tiptur amounts to Rs.56,000 and the annual maintenance Rs.7,300/- In the figures furnished by the Municipal Council, their annual income is Rs.8,160/- and expenditure Rs.4,836/- leaving a balance of Rs.3,324/- for meeting this extra expenditure. It is also stated that the Council have a reserve fund of Rs.30,000/- which can be utilised towards the initial cost. As regards the balance towards both the initial cost and maintenance charges, the council may be addressed to finance the scheme. If they are able to do so, then the project is worth investigation in detail.

=====

T I P T U R W A T E R S U P P L Y .

(Details of scheme).

1. Present population 2831
 2. Prospective population 5000
 3. Source of supply Shivarva Anritha Mahal Tank.
 4. Principle of supply. Constant all the 24 hours of the day.
 5. Quantity of water per head of population. 10 Gallons.
 6. Quantity of water for town consumption 50,000 Gallons per day
 7. Quantity of water for railway/ purposes 10,000 -do-
- Total quantity to be pumped per day. 60,000 Gallons
day.-----

8. Capacity of the system To pump the day's supply
in 18 hours.
9. Number of fountains About 10 to 15.
10. Static head for pumping 50
11. Frictional head for pumping 50 gallons per minute in a
5" main 7 miles long
including future incre-
mentation in pipes 42×18
= 58 feet.

Total head for pumping .. 108 feet.

* * * * *

MEMO ON SHIVARA TANK AS A SOURCE OF WATER SUPPLY TO TIPTUR
T O W N

Tank capacity .. 200 units or 52 million cubic feet.

Rainfall. Good year. 30 inches

Average year. 25 inches.

Bad year. 17 inches.

Independent catchment. 2.5 square miles.

Run off from catchment. $1/5$. This is fair considering the catch-
ment

Water spread of tank. F.S.L. 215 acres.

Evaporation and percolation in tank during year
taken as 8 ft. per annum on the average water
spread of the tank at the beginning and end of
the year.

Assuming that the tank is full at the beginning of the year, we
have 1st year beginning 52 million cubic feet.

Add supply during the year with 17" mini-
mum rainfall on 2.5 square miles and
with $1/5$ run off

19	"	"	"
Total	71	"	"

Deduct:-

Drawn for pumping during the year	3 $\frac{1}{2}$	"	"	"
Evaporation & percolation during the year.	28	"	"	"
Total	31 $\frac{1}{2}$	"	"	"

Balance at the end of the 1st year.	39 $\frac{1}{2}$	"	"	"
-------------------------------------	------------------	---	---	---

Add supply in 2nd year th 17" of mini-
mum rainfall

19	"	"	"
Total	58 $\frac{1}{2}$	"	"

19

Deduct: 4

For pumping a 2nd year. 3½ million cubic feet.

Evaporation & percolation on average
tank area of 75 acres. 19.5 " " "

Total	23	"	"	"
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Balance at the end of the 2nd year	35½	"	"	"
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The balance is practically the same as the balance at the end of the 1st year even with 17" ^{of} minimum rainfall; so the tank will hold out for 3 years of bad rainfall which is an ample provision.

=====

"TRUE COPIES"

H. J. Mahan
 Under Secretary to Government,
 Public Works Department
 H V

ARA.

Water supply scheme Sipdur

G. R. S. 261

24/6

File No 288/11
Serial No. 6

Diary No. of letter replied to 4833

General and Revenue Secretariat

(M)
, the 191

Date of issue 9/7/14

Signed by Mr A V Ramaswathan

for Mr. A. V. Ramaswathan
disposal

To

The Deputy Commr.

Sunderbhar

Sir,

I am directed
to invite reference to
the correspondence ending
with your letter no 332
dated the 3rd Feb 1914
concerning the water supply
scheme for the Sipdur town
and to observe that

over

SUBJECT

for Mr. A. V. Ramaswathan
disposal

before taking any forward
step, the Municipal Board
may proceed to raise
subscriptions to the extent
of Rs 25,000 and to
improve their annual
income so as to be sure
of having an annual
revenue of Rs 13,500.

(Exclusive of the estimate
under water rate) for
meeting its normal
expenditure, the main-
tenance charges of water
supply and the interest
of the sinking fund
charges of any loan
that may have to
be raised in this
connection. If the above
two results are secured
Govt will be prepared to
sanction a grant-in-
aid of one fourth of the

List of enclosures

Copied by

Examined by

G. R. S 27]

GENERAL AND REVENUE
SECRETARIAT

(Continuation sheet draft form.)

initial cost of the project
and also grant²a
loan of another
fourth

2 As the preparations
of detailed estimates
~~for the project~~ ^{for the}
~~and the other programmes~~
project are likely to
take some time, I
am also to suggest
that Rs 20,000 out of
the closing balance
at the credit of the
Mund board, which
is now lying idle
maybe invested with
the Mysore Bank as
fixed deposit for
periods of 6 months &
the subscriptions raised
may be also similarly deposited
in the Bank

I have etc

well
21/5

GFD-12,000-15-8-12.

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